

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P489927

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5STD-30-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P489927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-5STD-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

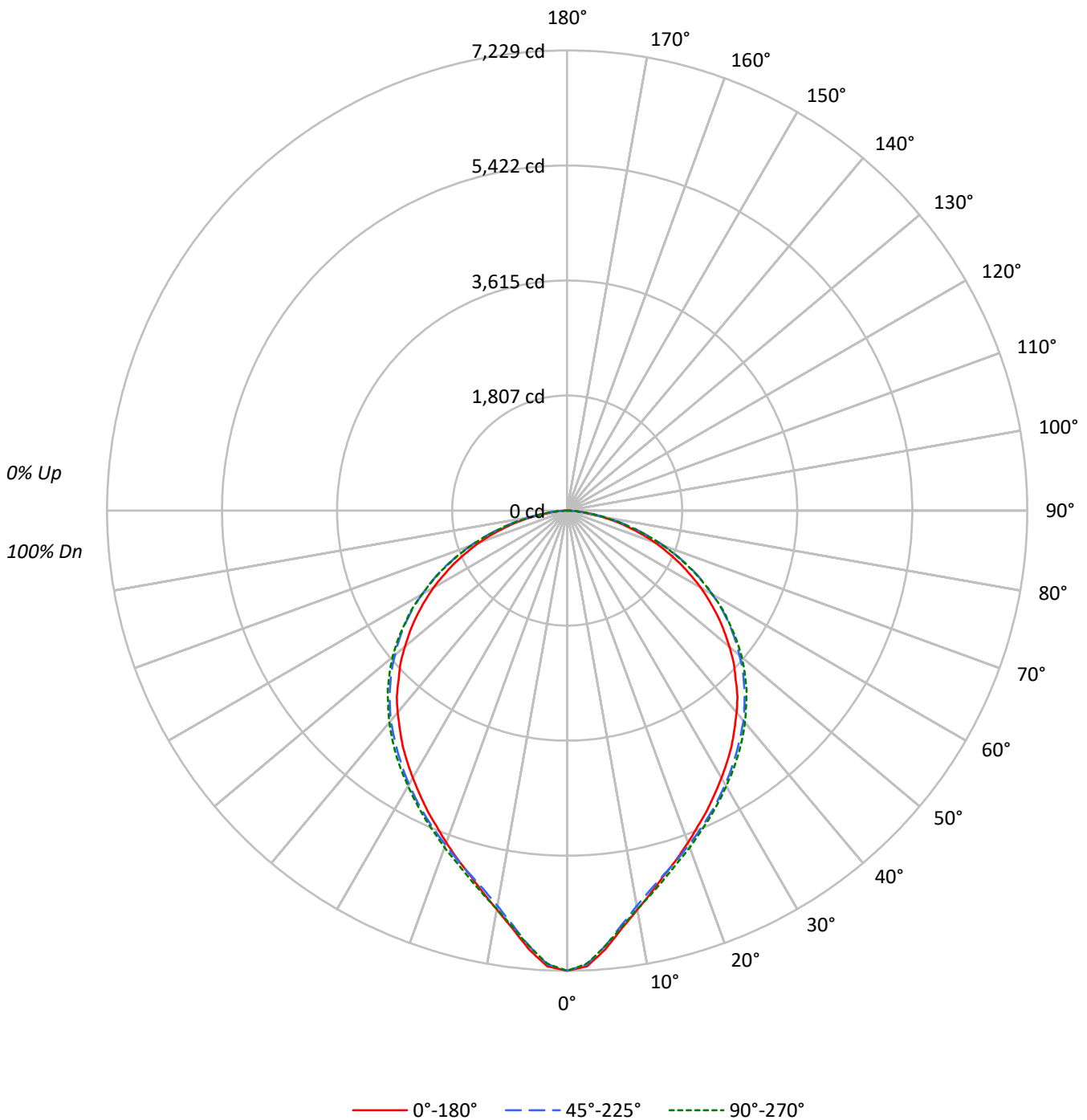
Lumens per Lamp: N/A
Luminaire Lumens: 16790.6 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9726	9726	9726
5°	9339	9273	9273
10°	8692	8612	8679
15°	8247	8232	8313
20°	7945	8002	8064
25°	7717	7843	7889
30°	7532	7717	7765
35°	7402	7619	7696
40°	7271	7566	7630
45°	7121	7493	7582
50°	6964	7399	7497
55°	6771	7292	7322
60°	6528	7092	7077
65°	6188	6820	6774
70°	5777	6360	6282
75°	5099	5634	5578
80°	4142	4591	4366
85°	2873	2927	2816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.7	3.8
10°-20°	1673.1	10.0
20°-30°	2433.0	14.5
30°-40°	2895.2	17.2
40°-50°	3006.2	17.9
50°-60°	2723.5	16.2
60°-70°	2055.1	12.2
70°-80°	1119.8	6.7
80°-90°	246.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4744.8	28.3
0°-40°	7640.0	45.5
0°-60°	13369.7	79.6
0°-90°	16790.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16790.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7229	7229	7229	7229	7229	
5°	6914	6898	6866	6862	6866	642
15°	5921	5906	5910	5950	5968	1671
25°	5198	5242	5283	5327	5314	2395
35°	4507	4561	4638	4709	4686	2817
45°	3743	3809	3938	3981	3985	2893
55°	2886	2955	3108	3130	3121	2577
65°	1944	2000	2142	2139	2128	1921
75°	981	1021	1084	1091	1073	1045
85°	186	188	190	188	182	235
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7228.6	7228.6	7228.6	7228.6	7228.6
2.5°	7165.4	7158.1	7134.7	7125.6	7123.8
5°	6914.3	6898.1	6865.5	6862.0	6865.5
7.5°	6614.5	6596.4	6564.0	6576.6	6592.8
10°	6361.6	6316.5	6303.7	6321.8	6352.5
12.5°	6135.8	6099.7	6088.8	6135.8	6157.6
15°	5920.8	5906.4	5910.1	5949.8	5967.8
17.5°	5734.9	5725.8	5749.3	5780.0	5789.1
20°	5548.8	5566.9	5588.6	5621.1	5631.8
22.5°	5366.4	5400.6	5436.9	5480.2	5465.7
25°	5198.4	5241.7	5283.3	5326.6	5314.0
27.5°	5019.5	5070.1	5127.9	5174.9	5156.8
30°	4847.9	4911.2	4967.2	5024.9	4997.9
32.5°	4678.2	4737.8	4804.6	4875.1	4844.4
35°	4506.6	4560.8	4638.5	4708.9	4685.5
37.5°	4317.0	4383.8	4472.2	4533.6	4517.5
40°	4139.9	4201.4	4307.9	4347.7	4344.0
42.5°	3961.1	4011.7	4123.7	4168.8	4161.6
45°	3742.6	3809.4	3937.6	3981.0	3984.6
47.5°	3549.3	3605.3	3742.6	3776.8	3784.0
50°	3327.1	3397.6	3534.9	3576.3	3581.8
52.5°	3108.5	3184.3	3325.3	3354.1	3359.7
55°	2886.3	2955.0	3108.5	3130.3	3121.2
57.5°	2653.4	2736.5	2877.4	2888.2	2897.2
60°	2425.7	2498.0	2635.3	2649.7	2629.9
62.5°	2178.4	2252.4	2393.3	2396.8	2380.6
65°	1943.5	1999.5	2142.1	2138.6	2127.7
67.5°	1697.8	1766.4	1871.3	1874.8	1865.9
70°	1468.4	1515.4	1616.6	1618.4	1596.8
72.5°	1221.1	1271.6	1352.8	1342.1	1336.7
75°	980.8	1020.6	1083.8	1091.0	1072.9
77.5°	760.5	789.3	836.3	830.9	811.0
80°	534.6	558.1	592.5	585.3	563.5
82.5°	341.3	355.9	377.5	368.5	359.4
85°	186.1	187.8	189.6	187.8	182.4
87.5°	68.6	70.5	70.5	68.6	63.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)